EPC2007 SPICE Thermal Model $R_{\theta JB}$, $R_{\theta JC}$

EPC2007 $R_{\Theta JB}$ SPICE Thermal Model

th Junction

CTHERM1 th 5 = 0.010

CTHERM2 5 4 = 0.090

CTHERM3 4 3 = 0.029

CTHERM4 3 2 = 0.014

CTHERM5 2 tl = 0.0022

RTHERM1 th 5 = 14.421

RTHERM2 5 4 = 10.667

RTHERM3 4 3 = 5.333

RTHERM4 3 2 = 1.365

RTHERM5 2 tl = 0.213

RTHERM1   CTHERM1

5

RTHERM2   CTHERM2

4

RTHERM3   CTHERM3

3

RTHERM4   CTHERM4

2

RTHERM5   CTHERM5

tl Case
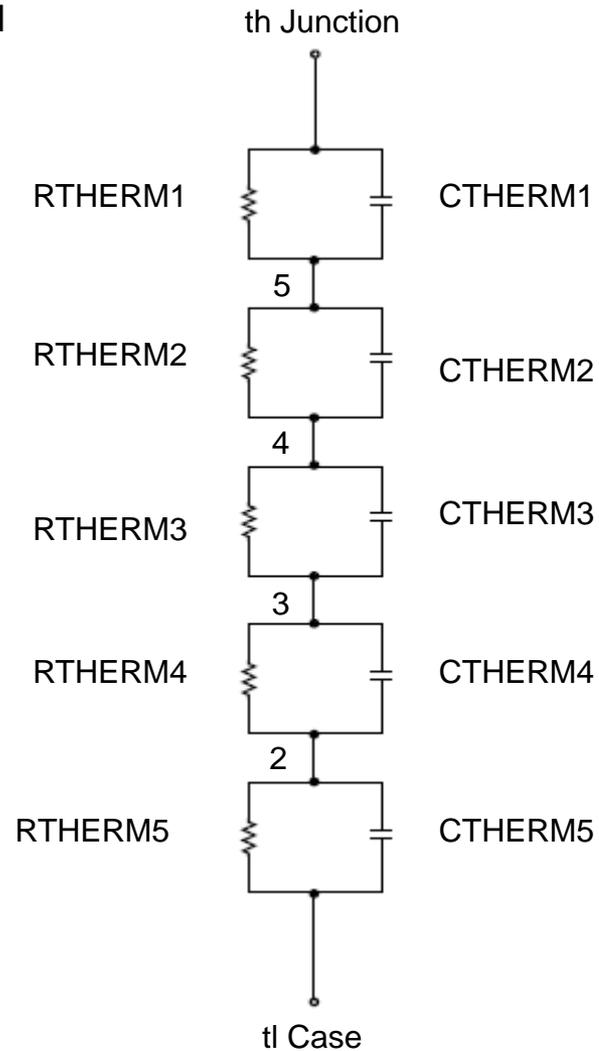
EPC2007 $R_{\theta JC}$ SPICE Thermal Model

Typical $R_{\theta JC}$ = 6.9° C/W

CTHERM1 th 6 = 0.00270

CTHERM2 6 5 = 0.02200

CTHERM3 5 4 = 0.03500

CTHERM4 4 3 = 0.00070

CTHERM4 3 2 = 0.00002

CTHERM5 2 tl = 0.00016

RTHERM1 th 6 = 3.20

RTHERM2 6 5 = 1.80

RTHERM3 5 4 = 1.10

RTHERM4 4 3 = 0.610

RTHERM5 3 2 = 0.040

RTHERM5 2 tl = 0.150

th Junction

RTHERM1   CTHERM1

6

RTHERM2   CTHERM2

5

RTHERM3   CTHERM3

4

RTHERM4   CTHERM4

3

RTHERM5   CTHERM5

2

RTHERM6   CTHERM6

tl Case

EPC
EFFICIENT POWER CONVERSION
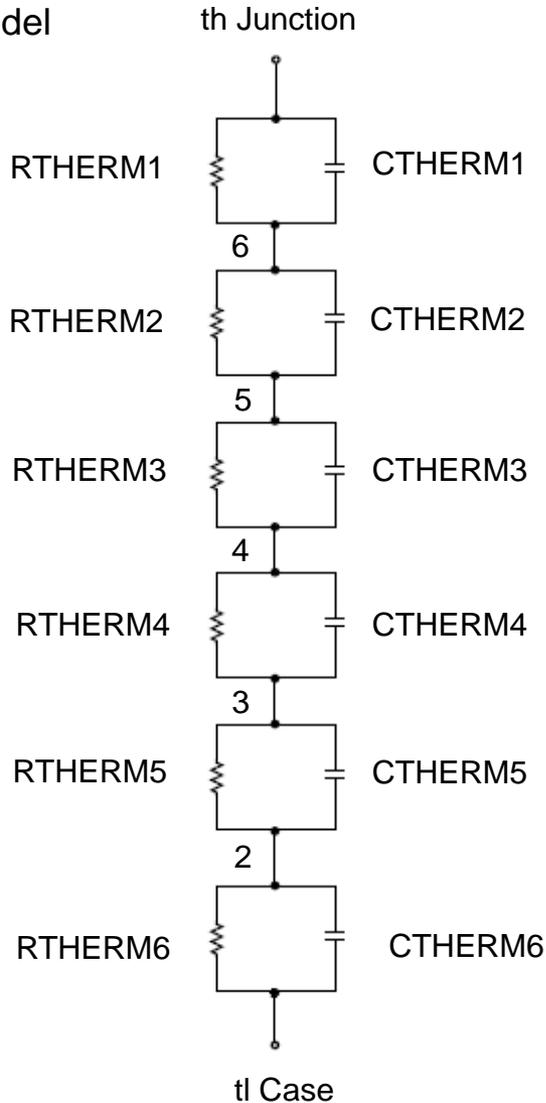
The end of the road for silicon…..

is the beginning of the eGaN FET journey!